Patent Case: DX0757K

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## STATUS OF CLAIMS

Claims 1-10, 20-21 and 28-36 are cancelled as they are drawn to non-elected inventions. As a result of the above claim cancellations, claims 11-19 and 22-27 remain pending. Applicants have amended claims 11, 14, 15, 18, 22-27 for greater clarity and consistency. Support for these claim amendments may be found in the specification and the originally filed claims. In addition, Applicants have added new claims 37-40. Support for new claims 37-39 may be found in the specification and the originally filed claims. No new matter has been added by these claim amendments and claim additions.

Applicants attach Appendix A with the newly revised claim set, primarily for the Examiner's convenience.

In addition, Applicants attach Appendix B a marke 1-up version of the changes made to the claims by the current amendment entitled "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

## CONCLUSION

Applicants reserve the right to file subsequent applications claiming the non-elected subject matter and do not waive any of their rights or abandon any non-elected subject matter. It is believed that the foregoing amendment places this application now in condition for early action. Therefore, early and favorable action allowing pending claims 11-19, 22-27 and 37-40 is respectfully solicited.

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Respectfully submitted,

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- 11. An isolated or recombinant nucleic acid encoding a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 8.
- 12. A cell or tissue comprising a recombinant nucleic acid of Claim 11.
- 13. The cell of Claim 12, wherein said cell is:
  - a) a prokaryotic cell;
  - b) a eukaryotic cell;
  - c) a bacterial cell;
  - d) a yeast cell;
  - e) an insect cell;
  - f) a mammalian cell;
  - g) a mouse cell;
  - h) a primate cell; or
  - i) a human cell.
- 14. A kit comprising said nucleic acid of Claim 11, and:
  - a) a compartment comprising said nucleic acid;
  - b) a compartment further comprising a polypeptide of SEQ ID NO: 8; and/or
  - c) instructions for use or disposal of reagents in said kit.
- 15. A nucleic acid which:
  - a) hybridizes under wash conditions of 45° C and less than 700 mM salt to SEQ ID NO: 7; or
  - b) exhibits identity over a stretch of 30 nucleotides to SEQ ID NO: 7.
- 16. The nucleic acid of Claim 15, wherein:
  - a) said wash conditions are at 55° C and/or 500 mM salt; or
  - b) said identity is over at least 55 nucleotides.
- 17. The nucleic acid of Claim 16, wherein:
  - a) said wash conditions are at 65° C and/or 150 mM salt; or
  - b) said identity is over at least 75 nucleotides.
- 18. A kit comprising said nucleic acid of Claim 15, and:
  - a) a compartment comprising said nucleic acid;
  - b) a compartment further comprising a polypeptide of SEQ ID NO: 8; and/or
  - c) instructions for use or disposal of reagents in said kit.
- 19. A method of using said nucleic acid of Claim 15:
  - a) to produce a duplex nucleic acid, comprising contacting one strand of the nucleic acid to the complementary strand, thereby producing said duplex; or
  - b) to produce a polypeptide, comprising expressing said nucleic acid in a host cell, thereby producing said polypeptide.

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- 22. An isolated nucleic acid encoding a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 8, or a polypeptide having at least about 80% sequence homology thereto.
- 23. The nucleic acid of Claim 22, wherein the nucleic acid comprises the nucleotide sequence set forth in SEQ ID NO: 7, or a nucleic acid having at least about 80% sequence homology thereto.
- 24. A recombinant vector comprising:
  - a) a nucleic acid according to Claim 22; and
  - b) control elements that are operably linked to said nucleic acid whereby a coding sequence within said nucleic acid can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence.
- 25. A host cell transformed with the recombinant vector of Claim 24.
- 26. A method of producing a recombinant polypeptide comprising:
  - a) providing a population of host cells according to Claim 25; and
  - b) culturing said population of cells under conditions whereby a polypeptide encoded by the coding sequence present in said recombinant vector is expressed.
- 27. A method of expressing a recombinant polypeptide comprising:
  - a) transforming a host cell with the recombinant vector of Claim 22; and
  - b) causing expression of a polypeptide encoded by the coding sequence present in said recombinant vector.
- 37. An isolated or recombinant nucleic acid which comprises a nucleic acid encoding an antigenic polypeptide comprising:
  - a) an 8 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8;
  - b) a 12 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8; or
  - c) a 27 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8.
- 38. A kit comprising:
  - a) the isolated or recombinant nucleic acid of Claim 37 in a compartment; and
  - b) instructions for use or disposal of reagents in said kit.
- 39. An expression vector which comprises the isolated or recombinant nucleic acid of Claim
- 37.
- 40. A host cell transformed with the expression vector of Claim 39.

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## VERSION WITH MARKINGS TO SHOW CHANGES MADE

1.	An isolated polypeptide comprising:
	a) the amine acid sequence of SEQ ID NO; 8;
	b)—the amino acid sequence of SEQ ID NO: 6, or
	e) the amino acid sequence of SEQ ID NO: 2.
2	An antigenic polypeptide comprising:
	a) an immunogenie amino acid sequence exhibiting identity overall length of at least 12
	amina zeide ta SEA ID NO· 8:
	b) an immunogenic amino acid sequence exhibiting identity over a longth of at least 12
	amino goids to SEO-ID NO: 6:-0#
_	c) an immunogenie amino acid sequence exhibiting identity over a length of at least 12
	amino acids to SEQ ID NO: 2.
3	- An antigenie polypeptide of:
	a) Claim 2a, further comprising:
	i) a second length of identity of 12 amino acids;
	——————————————————————————————————————
	iii) a sequence of another chemokine receptor; or
	iv) a carbohydrate;
	b) Claim 2b, further comprising:
	i) a second length of identity of 12 amino acids;
	——————————————————————————————————————
	——————————————————————————————————————
	——————————————————————————————————————
	c) Claim 2e, further comprising:
	i) a second length of identity of 12 amino aoids;
	ii) a detection or purification tag;
	iii) a sequence of another chemokine; or
	iv) a carbohydrate.
4. —	The polypeptide of Claim 1, which;
	a) has a molecular weight of at least 3 kD with natural g yeosylation;
	<del>- b) is a synthetic polypoptide;</del>
	c) is attached to a solid substrate;
	—d) is conjugated to another chemical moiety;
	e) is a 5-fold or less substitution from natural sequence; or
	f) is a deletion or insertion variant from a natural sequence.
5	A composition-comprising:
	a) a sterile polypeptide of Claim la,
	b) a sterile polypeptide of Claim lb; or
	c) a sterile polypeptide of Claim le.

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6. — A kit comprising a polypeptide of Claim 1, and:	
6. — A kit comprising a polypeptide of Claum 1, and:  a) a compartment comprising said polypeptide; and/or  a) a compartment comprising said polypeptide; and/or	
b)—instructions for use or disposal of reagents in said kit.	
7. — A method of using said polypeptide of Claim 1 to:	
a) produce an antiserum, comprising immunizing an anin al with said polypeptide, and	
inalating raid anticerum: OF	
b) produce an antibody:antigen complex, comprising con acting said polypeptide with a	
specific antibody, thereby producing said complex.	
8. A binding compound comprising an antigen binding portion from an antibody, which	
escifically hinds to a nelypertide of Claim I, wherein:	
2) gold hinding compound is an FV. Fab. of Fab2 magnetit,	
b) said binding compound is conjugated to another chem cal moiety; or	
-) and antibody:	
i) is raised against a peptide sequence of a matu e polypeptide of Figure 1 or	
Figures 3A-3C;	
ii) is raised against a peptide sequence of a matu e rodent polypoptide of Figure	
——————————————————————————————————————	
iii) is immunoselected;	
iv)—is a polyclonal antibody;  v)—binds to a denatured rodent CXC N4, rodent 1)NAXCCR10, or primate	
- BLRx;	
vi) exhibits a Kd to antigen of at least 30 μM;	
vii) is attached to a solid substrate, including a be id or plastic membrane;	
viii) is in a sterile composition; or	
ix) is detectably labeled, including a radioactive or fluorescent label.	
9. A kit comprising said-binding compound of Claim 8, and:	
a) a compartment comprising said-binding compound; a id/or	
b) instructions for use or disposal of reagents in said kit.	
10. A composition comprising:	
a) a sterile binding compound of Claim 8; or	
b) said binding compound of Claim 8 and a carrier, who cin said carrier is:	
i) an aqueous compound, including water, salint, and/or outler, und/or	
ii) - formulated for oral, rectal, nasal, topical, or purenteral administration.	
11. An isolated or recombinant nucleic acid encoding a polypeptide of Claim 1 comprising	
the amino acid sequence set forth in SEO ID NO: 8, wherein sant nucleic acid:	
a) encodes an antigenic peptide sequence of Figure 1 or Figures 3/F-3C;	
h) <u>ancodes an antigenic radent pentide sequence of Figu</u> re <del>10 3;</del>	
oncodes a plurality of antigenic peptide sequences of Figure or Figures 3/1-3/4;	
d) encodes a plurality of anticonic pentide sequences of Figures 27, 25;	
e) exhibits identity of at least 27 nucleotides of SEQ ID NO: 7, 5, or 1;	
f) is an expression vector;	
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	g)- further comprises an origin of replication;
	h) is from a natural source;
	_ i) _ comprises a detectable label;
	i) comprises synthetic nucleotide sequence;
	k) is less than 6 kb, preferably less than 3 kb;
	1) is from a mammal, including a rodent;
	m) comprises a natural full length coding sequence;
	n) is a hybridization probe for a zene encoding said prote n; or
	e) is a PCR-primer, PCR product, or mutagenesis primer.
	o) is a fixed primiting a series of
12.	A cell or tissue comprising a recombinant nucleic acid of Claim 11.
13.	The cell of Claim 12, wherein said cell is:
	a) a prokaryotic cell;
	b) a eukaryotic cell;
	c) a bacterial cell;
	d) a yeast cell;
	e) an insect cell;
	f) a mammalian cell;
	g) a mouse cell;
	h) a primate cell; or
	i) a human cell.
14.	A kit comprising said nucleic acid of Claim 11, and:
	a) a compartment comprising said nucleic acid:
	b) a compartment further comprising a polypeptide of SIQ ID NO: 8, 6, or 2; and/or
	c) instructions for use or disposal of reagents in said kit.
15.	A nucleic acid which:
	a) hybridizes under wash conditions of 45° C and less than 700 mM salt to SEQ ID NO:
	1: 13
	b) hybridizes under wash conditions of 45° C and less than 700 mM salt to SEQ ID NO:
	5.
	e) hybridizes under wash conditions of 45° C and less than 700 mM salt to SEQ ID NO:
	7: or
	d) b) exhibits identity over a stretch of 30 nucleotides to SEQ ID NO: 7;
	e) exhibits identity over at least 30 nucleotides to SEQ 1D-NO; 5; or
	f) exhibits identity over at least 30 nucleotides to SEQ ID NO-1.
	The state of the s
16.	The nucleic acid of Claim 15, wherein:
	a) said wash conditions are at 55° C and/or 500 mM salt; or
	b) said identity is over at least 55 nucleotides.
17.	The nucleic acid of Claim 16, wherein:
1/.	a) said wash conditions are at 65° C and/or 150 mM salt; or
	b) said identity is over at least 75 nucleotides.
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- 18. A kit comprising said nucleic acid of Claim 15, and:
  - a) a compartment comprising said nucleic acid;
  - b) a compartment further comprising a polypeptide of SEQ ID NO: 8, 6, or 2; and/or
  - c) instructions for use or disposal of reagents in said kit.
- 19. A method of using said nucleic acid of Claim 15:
  - a) to produce a duplex nucleic acid, comprising contacting one strand of the nucleic acid to the complementary strand, thereby producing said duplex; or
  - b) to produce a polypeptide, comprising expressing said nucleic acid in a host cell, thereby producing said polypeptide.
- 20. A method of screening for a compound which binds to a p slypeptide of Claim 1 having SEQ-ID NO: 8, comprising contacting said compound to said polypeptide, and detecting binding.
- 21.—An isolated polypeptide, comprising the amino acid sequence of SEQ ID No:8, or a polypeptide having at least about 80% sequence homology theret.
- 22. An isolated polynucleotide nucleic acid encoding the a polypeptide of claim 21 comprising the amino acid sequence set forth in SEQ ID NO: 8, (r a polypeptide having at least about 80% sequence homology thereto.
- 23. The polynucleotide nucleic acid of eClaim 22, wherein the polynucleotide nucleic acid comprises the nucleotide sequence of set forth in SEQ ID NO: 7, or a polynucleotide nucleic acid having at least about 80% sequence homology thereto.
- 24. A recombinant vector comprising:
  - (a) a polynucleotide nucleic acid according to eClaim 22: and
  - (b) control elements that are operably linked to said poly nucleotide nucleic acid whereby a coding sequence within said polynucleotide nucleic acid can be transcribed and translated in a host cell, and at least one of said control elements is heterologous to said coding sequence.
- 25. A host cell transformed with the recombinant vector of e claim 24.
- 26. A method of producing a recombinant polypeptide comprising:
  - (a) providing a population of host cells according to eClaim 25; and
  - (b) culturing said population of cells under conditions whereby a polypeptide encoded by the coding sequence present in said recombinant vector is expressed.
- A method of expressing a recombinant polypeptide comprising:
  - (a) transforming a host cell with the recombinant vector of eClaim 22; and
  - (b) causing expression of a polypeptide encoded by the coding sequence present in said recombinant vector.
- 28. The method of claim 27, wherein the host cell is transfol med in vivo.

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- 29. The method of elaim 28, wherein the host eell is in the region of a wound.
- 30. A method of treating a wound comprising:
  - (a) transforming a host cell in vivo with the polynucleotide of claim 22, wherein the host cell is in the region of a wound; and
  - (b) causing expression of a polypeptide encoded by the co ling sequence present in said recombinant vector.
- 31. A method of treating a wound comprising modulating the 'n vivo expression of an endogenous polynucleotide in the region of the wound, wherein the polynucleotide encodes a polypeptide comprising the amine acid sequence of SEQ ID NO:8
- 32. The method of claim-31, wherein expression is up-regulated.
- 33. An antibody-reactive with the polypeptide of claim 21.
- 34. The antibody of claim 33, wherein the antibody is a polyclonal antibody.
- 35. The antibody of claim 33, wherein the antibody is a mone clonal antibody.
- 36. —A method of treating a wound comprising administering the antibody of claim 33 to a subject in need thereof.
- 37. An isolated or recombinant nucleic acid which comprises a nucleic acid encoding an antigenic polypeptide comprising:
  - a) an 8 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8;
  - b) a 12 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8; or
  - c) a 27 amino acid fragment of the amino acid sequence set forth in SEQ ID NO: 8.
- 38. A kit comprising:
  - a) the isolated or recombinant nucleic acid of Claim 37 in a compartment; and
  - b) instructions for use or disposal of reagents in said kit
- 39. An expression vector which comprises the isolated or recombinant nucleic acid of Claim 37.
- 40. A host cell transformed with the expression vector of Claim 39.

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